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Maths Quiz

Python Source Code

Learning Aim A – Code Analysis

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```
import random
import datetime

#the location of the files
easyFile = "EasyQuestions.txt"
mediumFile = "MediumQuestions.txt"
difficultFile = "DifficultQuestions.txt"
quizDataFile = "QuizData.txt"

#username to be used in the program
userName = ""
currentDifficultyLevel = 1

#lists to store the question dictionaries
listOfEasyQuestions = []
listOfMediumQuestions = []
listOfDifficultQuestions = []

#lists of question difficulties
#each column is a number of questions, easy medium & hard and the points associated
difficulty1 = [5,0,0,1]
difficulty2 = [3,2,0,2]
difficulty3 = [1,3,1,3]
difficulty4 = [0,2,3,4]
difficulty5 = [0,0,5,5]

#function that loads the question data from the file and uses them to build the list
of questions
#for the quiz
def BuildQuestionList():
    try:
        FileLoad(easyFile, listOfEasyQuestions)
        FileLoad(mediumFile, listOfMediumQuestions)
        FileLoad(difficultFile, listOfDifficultQuestions)
    except:
        print("An error has occurred")
        LogError("build question list")
```

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```
#a function to print out question data to the screen
def PrintQuestions():
        print("Easy Maths Questions:")
        for q in listOfEasyQuestions:
            print("QuestionID ",q["ID"],":",q["Part1"], "", q["Operator"],"",
q["Part2"],"=", q["Answer"], end="\n")

        print("\nMedium Maths Questions:")
        for q in listOfMediumQuestions:
            print("QuestionID ",q["ID"],":",q["Part1"], "", q["Operator"],"",
q["Part2"],"=", q["Answer"], end="\n")


        print("\nDifficult Maths Questions:")
        for q in listOfDifficultQuestions:
            print("QuestionID ",q["ID"],":",q["Part1"], "", q["Operator"],"",
q["Part2"],"=", q["Answer"], end="\n")
```

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